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NOVEL SUCCINATE COMPOUNDS, COMPOSITIONS AND METHODS OF USE AND PREPARATION

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CROSS-REFERENCE TO RELATED APPLICATIONS

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8/6/03
The application claims priority under 35 U.S.C. 119(e) to U.S. Provisional Application Serial No. 60/^{266,329}---, which was converted pursuant to 37 C.F.R. § 1.53(b)(2)(ii) from U.S. Patent Application No. 09/466,402, filed on December 17, 10 1999, the disclosure of which is incorporated herein in its entirety.

BACKGROUND OF THE INVENTION

Field of the invention

15 This invention is directed to novel succinate compounds. This invention is also directed to uses of these compounds in various medicinal applications, including treating disorders amenable to treatment by peptidyl deformylase inhibitors. This invention is still further directed to pharmaceutical compounds comprising these compounds and methods of synthesis thereof.

State of the Art

20 Treatment of microbial infection in host organisms requires an effective means to kill the microbe while doing as little harm to the host as possible. Accordingly, agents which target characteristics unique to a pathology-causing microorganism are desirable for treatment. Penicillin is an extremely well known example of such an agent. Penicillin acts by inhibiting biosynthesis of bacterial cell walls. Since 25 mammalian cells do not require cell walls for survival, administration of penicillin to a human infected with bacteria can kill the bacteria without killing human cells.

30 However, the use of antibiotics and antimicrobials has also resulted in increased resistance to these agents. As bacteria become resistant to older, more widely used antimicrobial agents, new antimicrobials must be developed in order to provide effective treatments for human and non-human animals suffering from microbial infection.